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DETERMINE A REPEATABLE INDEX FOR POWDER FLOWABILITY (DRY VISCOSITY)

Using technology developed by Dr. A. Gioia at the Pharmaceutical
Research Laboratories of DOW/GRUPPO-LEPITIT, S.P.A., Milan Italy.

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- * SIMPLE REPEATABLE INDEX OF FLOWABILITY OF POWDERS
- * CHECK FLOWABILITY BEFORE SET-UP OF TABLETING OR CAPSULE FILLING EQUIPMENT.
- * ESTABLISH A RELIABLE FLOWABILITY INDEX FOR PURCHASING AND QUALITY ASSURANCE SPECIFICATIONS
- * AVOID HIGH COEFFICIENT OF VARIATION IN PRODUCT UNIFORMITY



The viscosity of fluids is a universal index of fluid flow used to predict fluid behavior. The flowability index number of dry powders provides a similar convenient way to classify and predict the behavior of powders.

"INTRINSIC FLOWABILITY" as defined by Dr. Gioia is the property of a powder to flow evenly under the action of gravity and other forces. His technique uses the FLODEX[®] Tester to determine a repeatable flowability index over an arbitrary scale of 4-40.

This one simple test takes into account the numerous parameters that affect powder flowability such as particle size and shape; "fines"; unit surface; actual and bulk density; porosity; settling; and electrostatic charge.

FLODEX[®] instrument includes: Funnel with stainless steel stand on rugged base; stainless cylinder with precision anti-vibration release mechanism; and nineteen stainless steel flow discs with holes of exact